

Amendments to the Specification:

Please replace paragraphs [0003], [0007], [0017], [0030] and [0046] with the following amended paragraph:

[0003] Modularly constructed so-called stack reactors consisting of a plurality of successively arranged catalyst discs are in ever increasing use because of their compactness and their design which can be adapted in a simple way to any reaction taking place by solid-state catalysis. An especially important field of use is, in this context, fuel cells which can, be ,[[,]] in particular, in motor vehicles.

[0007] Both the reactor types mentioned above have the disadvantages that the educt distribution systems, feeder plate or lance that are used there can lead to unequal distributions of the educt mixture to the individual modules of the stack reactor and also cannot compensate pressure fluctuations within the distribution system. Moreover, in the known distribution systems, pronounced pressure fluctuations occur due to only partial or regional evaporation of the educt mixture, thus leading to pulsations in the distribution system and ultimately to unequal distributions to the modules. The result of this is that, during a catalytic reaction, some reactor regions are loaded excessively and others, in turn, insufficiently, whereby desirable thermal gradients occur within the reactor. Overall the efficiency and reaction rate of a

reaction taking place in this way by solid state catalysis are thereby impaired.

[0017] Figure 2 is a perspective view of a detail of a currently preferred reactor according to the present invention;

[0030] In addition to the possibility of thermally uncoupling the distributor device 2, preferably at least the outlets 21, by these not being connected to the walls of the reactor or evaporator so as to cause solid-state conduction, thermal uncoupling can be effected by arranging thermally non-conductive or insulators at least regionally around the distributor device 2. It is also possible to provide cooling devices.

[0046] It is furthermore particularly advantageous for the device to be used as a plate reactor in a fuel-cell system and as an evaporator in a fuel-cell system.